

DIPE 103
MAY 02 2001
PATENT & TRADEMARK OFFICE

SEQUENCE LISTING

<110> Clendennen, Stephanie K.
Kellogg, Jill A.

<120> MELON PROMOTERS FOR EXPRESSION OF
TRANSGENES IN PLANTS

<130> 4257-0025.30

<140> US 09/811,093

<141> 2001-03-16

<150> US 60/190,414

<151> 2000-03-17

<160> 45

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> adaptor (universal genome walker)

<400> 1

gtaatacgac tcactatagg gcacgcgtgg tggtcgacgg cccgggctgg t

51

<210> 2

<211> 8

<212> DNA

<213> Artificial Sequence

<220>

<223> adaptor (universal genome walker)

<221> misc_feature

<222> (1)...(1)

<223> 5' nucleotide modified to include phosphate group

<221> misc_feature

<222> (8)...(8)

<223> 3' nucleotide modified to include amine group

<400> 2

accagccc

8

<210> 3

<211> 22

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<213> Artificial Sequence

<220>

<223> primer

<400> 3

gtaatacgac tcactatagg gc

22

<210> 4

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 4

actatagggc acgcgtggt

19

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<211> 26

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<213> Artificial Sequence

<220>

<223> primer

<400> 5

aatttgctcc aatatcttag ctctac

26

<210> 6

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 6

agacagccat ttctttttgt agatac

26

<210> 7

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 7

agcggataac aatttcacac agga

24

<210> 8

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 8
tagacggatc cttctttttg tagatacaag at 32

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<220>
<223> primer

<400> 9
gatccattat tagagattga gc 22

<210> 10
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 10
catggctcaa tctctaataa tg 22

<210> 11
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 11
gggctggaaa gcttaagaga aattggta 28

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<220>
<223> primer

<400> 12
ggggttttgt ttttggatcc tgggtgtgtt 30

<210> 13
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 13
ccatcctaatac gactcact atagggc 27

<210> 14
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 14
gggcagggtt ctagaattca gcggccgc

28

<210> 15
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 15
gtgaaactcg acccggttcct taaaaacttc

30

<210> 16
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 16
gctttccaat gagagccatg gttttaaacc tt

32

<210> 17
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 17
tattaccttc actggatctc ttccctc

27

<210> 18
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 18
gccttaagct ttgttgatca tccacatc

28

<210> 19

<211> 23
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<213> Artificial Sequence

<220>
<223> primer

<400> 19
gtttgcattg tttccatggg aaa

23

<210> 20
<211> 24
<212> DNA
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<220>
<223> primer

<400> 20
agcggataac aatttcacac agga

24

<210> 21
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 21
aagctttttt tttttg

16

<210> 22
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<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 22
aagctttttt tttttc

16

<210> 23
<211> 16
<212> DNA
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<220>
<223> primer

<400> 23
aagctttttt ttttta

16

<210> 24
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<213> Artificial Sequence

<220>

<223> primer

<400> 24

aagcttgatt gcc

13

<210> 25

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 25

aagcttcgac tgt

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<210> 26

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 26

aagctttggt cag

13

<210> 27

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 27

aagcttctca acg

13

<210> 28

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 28

aagcttagta ggc

13

<210> 29

<211> 13

<212> DNA

<213> Artificial Sequence

<220>
<223> primer

<400> 29
aagcttgac cat

13

<210> 30
<211> 13
<212> DNA
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<220>
<223> primer

<400> 30
aagcttaacg agg

13

<210> 31
<211> 13
<212> DNA
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<220>
<223> primer

<400> 31
aagcttttac cgc

13

<210> 32
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 32
ttctaggcga aaaccaagtg ggcctaat

28

<210> 33
<211> 27
<212> DNA
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<220>
<223> primer

<400> 33
cccacactga cccaacaaa caatagc

27

<210> 34
<211> 24
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<220>
<223> primer

<400> 34
aggccatggt cggcgccggg aaaa 24

<210> 35
<211> 24
<212> DNA
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<220>
<223> primer

<400> 35
agcggataac aatttcacac agga 24

<210> 36
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 36
gacagtatag ttcatggctt ggttgg 26

<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 37
aggttctttt aatcaggcaa tcttctt 27

<210> 38
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 38
gcgggatacct atttttgtga attggaaatg 30

<210> 39
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 39

cgccagggtt ttcccagtcg cgac

24

<210> 40
<211> 1499
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

A²

<400> 40
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gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcggcttac tatagggcac 120
gcgtggtcga cggcccgggc tggttaacttt aagagaaatt ggtaaaattc ctagagagaa 180
ttgtaattaa tataggagaa tgattttaat tctaattgtg tatccatttt cgataaagtt 240
aaataaagtg tcgtagacga ccatcattct taatccattt gtacttatca aatttgtatc 300
tgagatttaa gttcaaatc acactaaaac aatcgaaatg tatgcgacaa tcacaatgga 360
aaatacgtat gatgtattcc atcacctttc aagttctaac ctaggatatg ttttgggaata 420
tttgagattt attaaattat tcttttatcc gttgacagtt tttttttgt ttaacgatgt 480
atgtaagaaa cgacgaaata tgtgattaaa ccaagatcgc atacaaataa gagctagatc 540
ctaaagatat ataaaagtat gatcaacaac gtacaaaacg tttcttttcg atgataatta 600
tcttaagaac ttcaaggtta atttagatct cttaattaaa aaatttcata gataatgcat 660
ccgtgaacaa gaaaaaacat aaagaacca tggttgctct aatttttgta gtaaataagc 720
gtagttcaag acacaagtaa gaatgacgtt accacatgtt aatctagatt ccaaaacttg 780
agcttgagag cacgttacga aaataatcta cgaaaacgag taagtcgtct aagttcgttt 840
tcgtttattt gacacgtaag atactcgtat tgaaagaaga cgaaaaatgg aaaaaagtaa 900
agaaggtaag gaggtgggtg agtccaaagg aaacatacca aattcatgca agaactatga 960
gattcagaaa ttaagagaaa agtgtggaaa tcatgttaact aaatttaaaa tacatatagg 1020
tactattttt tttctttttt tattgaaaca aagagaccaa gggggaatta gggatatagg 1080
cattggcaga cataaaaaata ataaagttaa atcaaattgg gtcccaaact caccaaagag 1140
gaaattcagt gttgaataaa gccaatagc caaagccaaa gccaaagcca cctcctctct 1200
ttccacata catgcatgaa atttcatggg cccattcttt ttatcatcac atttttaata 1260
attttatctt cttcttcttc ttcttcttct tcttcttctt cttcttcttc ttcttcttct 1320
ttttttaatc aatttcttcc cactttccaa tcctaaataa atttcaactat aaataccctt 1380
tcattataac ttgatccaac acaccacca accaaaaaca aaaccttgat accaaagagt 1440
tcttttttct ttatttgcac aaaccaaata ttgtatctac aaaaagaaat ggctgtcta 1499

<210> 41
<211> 1319
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<221> misc_feature
<222> (1)...(1319)
<223> n = A,T,C or G

<400> 41
aggaaacagc tatgaccatg attacgccaa gcttaagaga aattggtaaa attcctagag 60
agaattgtaa ttaatatagg agaatgattt taatttcta gttgtatcca ttttcgataa 120
agttaaataa agtgtcgtag acgaccatca ttcttaatcc atttgtactt atcaaatttg 180
tatctgagat ttaagttcaa attcacacta aaacaatcga aatgtatgcg acaatcacia 240
tggaataaac gtatgatgta ttccatcacc tttcaagttc taacctagga tatgttttgg 300
aatatttgag atttattaaa ttattctttt atccgttgac agttttattt ttgtttaacg 360
atgtatgtaa gaaacgacga aatatgtgat taaaccaaga tcgcatacaa ataagagcta 420

gatacctaaag atatataaaa gatatgatcaa caacgtacaa aacgttttctt ttcgatgata 480
attatcttaa gaacttcaag gttaatttag atctcttaat taaaaaattt catagataat 540
gcatccgtga acaagaaaaa acataaagaa cccatgggtg tcttaatttt ttagtagaat 600
aagcgtagtt caagacacaa gtaagaatga cgttaccaca tgtaaatcta gattccaaaa 660
cttgagcttg agagcacggt acgaaaataa tctacgaaaa cgagtaagtc gtctaagttc 720
gttttcgttt atttgacacg taagatactc gtattgaaag aagacgaaaa atggaaaaaa 780
gtaaagaagg taaggagggt ggtgagtgca aaggaaacat accaaattca tgcaagaact 840
atgagattca gaaattaaga gaaaagtgtg gaaatcatgt aactaaattt aaaatacata 900
taggtactat tttctttcct tttctattga aasraagaga nnaaggggga attagngtat 960
atggcattgg cagacataaa aataataaag ttaaatacaa ttgggtccca aactcaccaa 1020
agaggaaatt cagtgttgaa taaagccaat tagccaaagc caaagccaaa gccacctcct 1080
ctctttccca catacatgca tgaaatttca tgggccattt ctttttatca tcacattttt 1140
aataatttta tcttcttctt cttcttcttc tttcttctt tttcttctt cttcttcttc 1200
ttcttttttt aatcaatttc tttccacttt ccaatcctaa ataaatttca ctataaatac 1260
cccttcatta taacttgatc caacacaccc aggatccatt attagagatt gagccatgg 1319

<210> 42
<211> 1735
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<400> 42
agcggataac aatttcacac aggaaacagc tatgaccatg attacgccaa gcttggtacc 60
gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcggcttgt aatacgactc 120
actatagggc acgcgtgggc caccgcccgc gctggtaact agaagctaaa ggacgacgtc 180
aacataatta aaattactcc aagataatta aaattaaaaa tatcttatat tttatggcgt 240
tacatcttcc tttctcttcc ttttttttcc tgctgcgatt tcttcccatc tatttcttct 300
tttactctta tttttttctt tacattggtt agatttgggt aaccaaatct gatttcttct 360
tatcgtcttt cttcttttcc ttttttttcc tccgctgcga tttcttccca ttgtctatcg 420
ttttttctcc ttttttttcc tacatcgtaa ccaaatctaa aagatcgtat ataaagaatc 480
ttcaaaaaaa aaaattgttt agattggagt agccaaattt aaacaatcgc gtaaaaaaaa 540
taaacgatcg tagacaaatc taaacgatcg tgcacaaaaa gatttaaaaa aatcggttag 600
tcaaatactaa acaattgtat aaccaaatta aacgatagaa ttgaaataat aaatcggtta 660
gatttggcta tccaaattta aatgaccaa tctaaacgat cgtataccaa atctaaacga 720
tcgkatacca aatctaaatg atcatgtacc aaatatatta tgcacattgt tggcaggggtg 780
gttgacggaa cattttgtat attttctatt atgggtttgt agaatttttt cattttcgaa 840
attgttctat acaatataaa tataaatatt ttaccacttc gttatatatt cgaaaagacc 900
ccttaaataa attgaattcg catataatta aaatttttcc ccaaaaaaag tagactatgt 960
ctatctaaaa atttgattcc caatatagaa caaattctca aaatgaacaa acatttgaaa 1020
ttctcgatat agaaaacatt tacttatttt gaattgggac atattccaaa gtttattcca 1080
aacgtaactt tgaaggaaaa gttgattgag attacatcca ttttttgtt tttcatattg 1140
aatttcatgg aaaattaaaa tgcacacaaa atgatgtatg agattaaacc aaagtttatc 1200
gttattgaat tcttttatta aaaaaccaac aaaattttta aacttgtttg caatagacca 1260
atatagttaa tccatcgtgg tctattgtag ataaattgta atattttgtt atatttaata 1320
aatattttga tttattttga tatatttgta tttagataac aaaattaaga tttaaatatt 1380
atttttatct ttaatatata catttggtta tttttctat ttttagaccat tttcttatt 1440
tttatataac attttaataa cttaatgatg tgacacacac taatattatt tttatccaaa 1500
gaaaataatg ctataaaata tgggtcttct ttatcacctt catgataatt atgaaaaata 1560
aaataaaatt taattatata attcatttca tctaactgta caagctagat attactatat 1620
caacaacttt gtgtataaaa agggcaagaa attaagcatt atcgtgtgag ccactttttc 1680
tatatctaga gatagaaggt ttaaaatcat gtctctaatt ggaaagcttg tgagt 1735

<210> 43
<211> 2184

<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<221> misc_feature
<222> (1)...(2184)
<223> n = A,T,C or G

<400> 43
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gccaagcttg gtaccgagct cggatccact agtaacggcc gccagtgtgc tgggaattcgg 120
cttactatag ggcacgcgtg gtcgacggcc cgggctgggtc caatcaccga acatcatgtt 180
atgtaggtgt cgggagatgc tacctatctg ctgatgttgg tttctttctt tgaaagatac 240
tctcctgact ttttagttgt tgcactctga gatgtcctct attattttga cacttttct 300
tctgacggtg tagagcaaca caaaaaaatc ttgaatttct attaatggaa tgagctatat 360
ctatacaaat tgggaaccata tgacaaatta agaagattcc tttctgaata ttatgcaata 420
gaaataactca ccaggtgtaa tgatgcacct tatagagaaa acttcgacga acaagagacg 480
gctactaagt tttagtagaa tgggtatttc tgacctacta tgtttcagga tgcgaggatc 540
ttcatggtca attgtgaccg atggtggaga actgaaaata tttcccatct caatgaaata 600
ctaaaacaac atatcttaga ggttgaacta tttgatatct agggaaataca ttttatggga 660
ccgttttcta gttgttcggg caaacacgca ttcgagacgg gacgttcatg tcgcatacca 720
cggaggatcc gcatgtaagc tatccaagca atacttctac cctttttgtc tttcttaata 780
atatattttt tacttactaa gatagtttct aaatttggtg tagaatcgaa tgctggaact 840
tcagtcctag cttacctcag tgggtactta gccactctct ggggacaaga tatgcgagat 900
ggcgttggat agacgattgg actactcaaa aggccttggg tggggaccta agtctagggc 960
ccacaagacg gccagtgtga gtagttccac gacctcatgt ttgtagtcca cggtagagct 1020
ccaattatgg actaagcttg atcaagctgt gcaacggatt gaagaacaaa caagaaatca 1080
cgatgcgtta gcttcaaaag tggaaatgaat gtgaaagttc atagaagaca tgagtcgggc 1140
acagtaagga ccacaacatt atctttagct ttgcgatacg tatannattt tccattattc 1200
ttaagttttt gaattacagt attcagtgat gatatgcata tatatgtacc aaacgtagcc 1260
acttttgtat aattgttagga cctgtggtgt agaatggcat atgaggctcg ttaaaagaca 1320
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tattttgtaa tttactaatt tattttaaat tttctttaat tgaatcgata acgaatgcaa 1500
atatttttac aaaaaaactt ataggaaaat atttcaaaaa aataaaaaat tacatattta 1560
aaatattttt cgacgcatta catatgtgga aaatatggtg caaacatcac atcggggatg 1620
gttattaccg acgcatgaat gacaccgaat atataaacgt aaggaaatagt tattcctgac 1680
gcataactgc tgcggaact gtggaagtta gttctcgaca ttattaacac ttacgtcgac 1740
gtttttatgc atcgggagtc gctccacttc ttgtagtga gaaattttgc ctataatgtc 1800
ggtttaaaac cgacattaaa ggccaaattt cttctagtgc ataataata tmcaaaagtt 1860
caattccaaa aattacattt ctctagaaat tccgtgtgaa caattgtcat aaagggtttta 1920
agtgaattga aaattttcaa acgtaattgg attaagcgag aaaattattt taatcaccat 1980
tcaaaagtta ttaacaatga aaaatatgga agataagatt tcaaaattac gtaattttact 2040
tctacgtttc tttctttccc ctttagtaac ttcactcata tctttatata cgttccatcc 2100
cttcacattc tcatacaaaa ttctctttca atatcaactc tcctctctta actcaccctt 2160
ttttcaaatg gaaacaatgc aaac 2184

<210> 44
<211> 985
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<400> 44

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gcttggtacc	gagctcggat	ccactagtaa	cggccgcccag	tgtgctggaa	ttcggcttac	120
tatagggcac	gcgtggtcga	cggcccgggc	tggtaaat	tgaaaagtta	ggagatattt	180
tttacatata	agagatat	tttataatgt	aacatttttt	ttactagacg	gttgagtcga	240
gttaggttaa	agaaaggaaa	actataaaat	aattttta	tattaaatac	ataaacaata	300
ctttgtattc	tatatataat	aaaatgacta	ttgaattggt	aagatgtagg	tatctaagga	360
caagaagtct	cgagttcaaa	tcttcaacct	caaaatatac	tgcaagatag	taactaatga	420
attatatttg	actaaatcat	gtagcaaaaag	aaaatcaaat	ttatcatggt	aaatatggtc	480
aagccggagc	attaacaaca	acaattcata	tttgtggttg	atagtacttg	actagaattt	540
agagagtact	tgactagaat	aaaaattggg	ggaccacta	cgacgtcagc	ttgccttgct	600
tagcaattaa	gctatcacct	cttagtctat	agcttcgtgc	gctgcattaa	acggtattct	660
cacacttttc	ttttcttttt	accgcacccg	tccggtta	ggctcccca	ctttttacct	720
tccccgaatc	cacgccagtt	gccaacatgc	gaagcagcaa	gtacaatatt	gtcattttgc	780
attaaccaa	atgacacgtc	ggatgtcatt	tatgtaatta	agctacaaag	ccacggttag	840
tttccgaacc	cccacgatcc	agtacttacg	tgtctcctat	aaatcttaga	agcaacgtct	900
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ttttcccggc	accgactatg	gcctc				985

<210> 45
 <211> 2455
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter

<400> 45

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cttgcagaag	atggaggaag	agaattttta	gaaattgaac	tgaaatagac	ttaattatta	180
aaaatcaaaa	gaaaaatggt	gccaacaaag	gtgactaaga	gtgtaatgaa	ttggaattag	240
aactttcctt	ctgtatagat	ataattgatg	ttttccttaa	ctttattttt	atgggtggtta	300
tttattaata	actgaatttt	taagagttct	tttaataacc	aatgtttata	ggattcaatt	360
gattgtttta	tgagatttag	caaacacttt	atattggaga	aataatttag	tgtagaaagt	420
aattttcatt	ttggattggt	tagatgaaca	tcāaatcttg	caacaacatt	cagttaagta	480
tatataaata	tatagagcca	ccaacctcaa	atacaatata	ttcgggaagca	aaatattata	540
cataatatgg	aaagaagagt	agtactggta	catgaatctt	acgaagaatt	taagtattat	600
tggtctttcc	aatgcagaag	tctcaacaaa	tcacatttta	aaaaccgatt	gaataaacat	660
gcaagtaaga	cttttgaaaa	aacaagcatt	caaacctcat	atcaattatc	tctatatgca	720
aaatgttagg	tcaaatgagt	aatgaaatta	aggacaaatc	aactaaaaag	aatcaataaa	780
gtgaatcgaa	aagaaacaaa	tatcaatcaa	acctaattgta	tacgtgattg	atgatgcagt	840
gtgttttgag	atatggacat	tttgataaac	aacaaacctc	cactccaata	cgagaagaga	900
ggcattgagt	gacagattag	tgccctattg	aagagggtaa	gtccaaaaca	aaacaaacac	960
aaaacatggt	gaagaaatgt	tatgaataaa	tggcagggaa	agacatggtt	gtacatgtgg	1020
tgtgagtttt	cttcttttcaa	atctgtgaat	aaattggatt	acgacccaac	aagagaaaca	1080
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psr #14

A²

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